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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/922,639	08/07/2001	Praveen K. Parvathala	219.40391X00	9273

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EXAMINER

DAS, CHAMELI

ART UNIT

PAPER NUMBER

2122

DATE MAILED: 07/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/922,639	<b>Applicant(s)</b> PARVATHALA ET AL.	
	<b>Examiner</b> CHAMELI C DAS	<b>Art Unit</b> 2122	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 August 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,7,13,14,17 and 27 is/are rejected.
- 7) ☒ Claim(s) 2-12,15,16,18-26 and 28-36 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 June 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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1. The preliminary amendment filed on 10/04/01 has been entered.
2. Claims 1-36 are pending.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 17, 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Halviatti et al (Halviatti) and further in view of Kossatchev et al, Kossatchev, US 6,698,012.

***As per claim 1, Halviatti discloses:***

- user directives provided to indicate user desired actions (col 2, lines 25-32)
- instruction information provided to define a suit of instruction (abstract, col lines 25-32)
- a SBE generation tool arranged to generate a software built-in-self-test engine based on the user directives (col 42, lines 47-57, col 6, lines 10-16)

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- the instruction information and device constraints (col 2, lines 25-37, col 4, lines 4-7, col 24, lines 40-45, col 30, lines 40-45)
- for subsequent storage of a device under test and activation of a function test on the device under test (col 41, lines 45-50, col 34, lines 17-27, col 31, lines 24-55, col 21, lines 40-45), where "in-memory testing models (of the application under test)" is the on-board complex device under test as claimed.

Halviatti does not specifically disclose re-generative functional test.

However, Kossatchev discloses re-generative functional test (col 12 lines 21-36, col 25, lines 35-40). The modification would be obvious because one of the ordinary skill in the art would be motivated to perform the testing systematically and repeatedly.

***For claim 17***, see the rejection of claim 1 above.

***For claim 27***, see the rejection of claim 1 above.

4. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Halviatti et al (Halviatti) further in view of Kossatchev et al, Kossatchev, US 6,698,012 and official notice.

***As per claim 13***, Halviatti discloses central processor. Halviatti does not specifically disclose microprocessor. However, official notice is taken for microprocessor.

***As per claim 14, Halviatti***, col 22, lines 45-50, col 41, lines 45-50, col 43, lines 4-10, col 22, lines 23-40, col 27, lines 50-57, col 35, lines 1-5)

Halviatti does not specifically disclose stored in the memory. However, official notice is taken for storing in the memory. The modification is obvious because one of the ordinary skill in the art would be motivated to keep the result in a permanent storage efficiently.

***Allowable Subject Matter***

5. Claims 2-12, 15-16, 18-26, 28-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

TITLE: BIST circuit with halt signal, US 5383195 A

TITLE: Pipeline testing method, pipeline testing system, pipeline test instruction generation method and storage method, US 6732297 B2

TITLE: Arithmetic built-in self-test of multiple scan-based integrated circuits, US 6728901 B1

TITLE: Method and system for testing behavior of procedures, US 6698012 B1

TITLE: Automated processor generation system for designing a configurable processor and method for the same, US 6760888 B2

TITLE: AT-speed computer model testing methods, US 6327556 B1

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TITLE: Integrated circuit memory devices having built-in self test based redundancy and methods of operation thereof , US 6091649 A

TITLE: Testing Pointing Device Performance and User Assessment with the ISO 9241, Part 9 Standard, author: Douglas et al, ACM, 1999.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chameli Das whose telephone number is 703-305-1339.

The examiner can normally be reached on Monday-Friday from 7:00 A.M.

to 3:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Tuan Dam can be reached at 703-305-4552. The fax number for this group is: (703) 872-9306.

An inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is 703-305-9600.

*Chameli C. Das*  
**CHAMELI C. DAS**  
**PRIMARY EXAMINER**  
*7/16/04*